

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT JR. GOVERNOR DIVISION OF HIGHWAYS P.O. BOX 25201, RALEIGH, N.C. 27611-5201 Garland B. Garrett Jr. Secretary

MEMORANDUM TO: Project Engineers

Project Design Engineers

FROM: W. J. Rogers, P. E.

State Bridge Design Engineer

DATE: October 1, 1997

SUBJECT: Economical Plate Girder Design

Due to the methods used to fabricate plate girders, it is far more economical to design a field section with uniform width flanges and vary the thickness at section change points. If the designer uses a constant flange width in a given field section, the fabricator can order wide plates of 2 or 3 different thicknesses and make 1 or 2 transverse butt splices. He can then cut the prewelded pieces longitudinally to the appropriate widths for flanges, see attachment.

Effective with new plans, flange widths in plate girder field sections shall be kept uniform where practical.

The Design Manual will be revised at a later date to reflect this policy.

WJR/CTR/ap

cc: T. V. Rountree, P. E.

N. M. Salmon, P. E.



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Last Updated: 8/11/98 by:Steven Rackley

E-mail Structure Design